

## CURRICULUM VITAE

### Mark L. Gleason

#### POSITION

Professor, Department of Plant Pathology and Microbiology, Iowa State University

- Research and teaching on diseases of horticultural commodities

#### HONORS AND AWARDS

Fellow, American Phytopathological Society, 2013

Outstanding Achievement in International Agriculture, Iowa State University, 2012

Extension Educational Team Award, Iowa State University, 2008

Regents Faculty Excellence Award, Iowa State University, 2006

Lee M. Hutchins Award for fruit pathology research, American Phytopathological Society, 2004

Outstanding Achievement in Extension and Professional Practice, Iowa State University, 2001

Merit Award, Iowa State Horticultural Society, 1998

Excellence in Extension Award, American Phytopathological Society, 1997

#### EDITORIAL

Senior Editor for case studies, *Plant Health Instructor*, 2016-2018

Associate Editor, *Scientia Agricola*, 2016-2018

Editor in Chief, *Plant Disease*, 2013-2015

Senior Editor, *Plant Disease*: 2002-2006, 2010-2012

Associate Editor, *Plant Disease*: 2001-2002

Feature Editor, *Plant Disease*: 1994-2000

#### REFEREED PUBLICATIONS (last 5 years; career total = 164)

**Gleason, M.L.**, Wang Wong, A., Lewis, D.R., Arauz Cavallini, L.F., Clawson, B.C., Duerfeldt, K.R., Nelson, H.M., and Nonnecke, G.R. 2017. Assessing a reciprocal international student travel exchange: the Iowa State University/University of Costa Rica Intercambio. *HortTechnology*: Submitted.

Liu, Q., Beattie, G.A., Saalau Rojas, E., and **Gleason, M.L.** 2017. Bacterial wilt symptoms are impacted by host age and involve net downward movement of *Erwinia tracheiphila* in muskmelon. *European Journal of Plant Pathology*: Submitted.

Dang, J.L., **Gleason, M.L.**, Niu, C.K., Zhang, R., and Sun, G.Y. 2017. A new *Alternaria* species, *Alternaria malicola*, causing fruit spot on apple. *Plant Disease*: Submitted.

Mehmood, N., Riaz, A., Naz, F., Hassan, I., Anwaar, S., Zhang, X., Rosli, H., and **Gleason, M.L.** 2017. First report of strawberry leaf spot caused by *Alternaria alternata* in Pakistan. *Plant Disease*: Submitted.

Rosli, H., Mayfield, D.A., Batzer, J.C., Dixon, P., Zhang, W., and **Gleason, M.L.** 2017. Evaluating the performance of a relative humidity-based warning system for sooty blotch and flyspeck in Iowa. *Plant Disease*: <http://apsjournals.apsnet.org/doi/pdf/10.1094/PDIS-02-17-0294->

RE.

Abbas, M.F., Aziz-ud-Din, A., Rafique, K., Qadir, A., Rashid, A., Qamar, M.I., Rafique, M., and **Gleason, M.L.** 2017. First report of *Alternaria* black spot of rose caused by *Alternaria alternata* in Pakistan. *Plant Disease*: <http://apsjournals.apsnet.org/doi/abs/10.1094/PDIS-04-17-0578-PDN>.

Xu, C., Zhang, R., Sun, G., and **Gleason, M.L.** 2017. Comparative genome analysis reveals adaptation to the ectophytic lifestyle of sooty blotch and flyspeck. *Genome Biology and Evolution*: Accepted pending revision.

Wang, B., Liang, X.F., **Gleason, M.L.**, Zhang, R., and Sun, G.Y. 2017. Genome sequence of the ectophytic fungus *Ramichloridium luteum* reveals unique evolutionary adaptations to plant surface niche. *BMC Genomics*: Accepted pending revision.

Ghuffar, S., Irshad, G., Naz, F., Abbas, M.F., and **Gleason, M.L.** 2017. First report of *Mucor fragilis* causing fruit rot of grapes (*Vitis vinifera*) in Pakistan. *Plant Disease*: Submitted.

Wang, W., Liang, X., Zhang, R., **Gleason, M.L.**, and Sun, G. 2017. Liquid shake culture surpasses solid plate culture in inducing conidial production of *Colletotrichum* isolates. *Australasian Plant Pathology*: DOI: 10.1007/s13313-017-0490-3.

Alam, M.W., **Gleason, M.L.**, Amin, M., and Rehman, A. 2017. First report of *Nigrospora sphaerica* causing leaf spot of Kinnow mandarin in Pakistan. *Journal of Plant Pathology* 107:295.

Alam, M.W., **Gleason, M.L.**, Mehboob, S., Riaz, K., and Rahman, A. 2017. First report of *Ceratocystis fimbriata* causing pomegranate wilt in Pakistan. *Plant Disease* 101:251.

Alam, M.W., Rehman, A., Iqbal, M., Saira, M., Aslam, S., Muhammad, S., Hameed, A., and **Gleason, M.L.** 2017. First report of *Ceratocystis fimbriata* causing Eucalyptus wilt in Pakistan. *Plant Disease*: Doi.org/10.1094/PDIS-12-16-1703-PDN.

Rosli, H., and **Gleason, M.L.** 2017. Sooty blotch and flyspeck: fungal smudges and customer preferences. *Plant Health Instructor*: <http://www.apsnet.org/edcenter/instcomm/TeachingArticles/Sootyblotch/Pages/default.aspx>

Alam, M.W., **Gleason, M.L.**, Ali, S., Fiaz, M., and Rehman, A. 2017. First report of *Botrytis cinerea* as a postharvest pathogen of strawberry in Pakistan. *Journal of Plant Pathology* 107:297.

Alam, M.W., **Gleason, M.L.**, Fiaz, M., Ali, S., and Rehman, A. 2017. First report of *Alternaria alternata* causing postharvest fruit rot of lychee in Pakistan. *Plant Disease*: doi.org/10.1094/PDIS-10-16-1452-PDN.

Liang, X., Tian, X., Liu, W., Wei, T., Wang, W., Dong, Q., Wang, B., Meng, Y., Zhang, R., **Gleason, M.L.**, and Sun, G. 2017. Comparative analysis of the mitochondrial genomes of *Colletotrichum gloeosporioides* sensu lato: insights into the evolution of a fungal species complex interacting with diverse plants. *BMC Genomics*: In press.

Abbas, M.F., Naz, F., Rauf, C.A., Mehmood, N., Zhang, X., Rosli, H., and **Gleason, M.L.** 2017. First report of *Fusarium solani* causing fruit rot of loquat (*Eriobotrya japonica*) in Pakistan.

*Plant Disease*: <http://apsjournals.apsnet.org/doi/abs/10.1094/PDIS-10-16-1544-PDN?journalCode=pdis>.

Chen, J., Dewdney, M.M., and **Gleason, M.L.** 2017. Citrus killer: battling back against HLB. *Plant Health Instructor*:

<http://www.apsnet.org/edcenter/instcomm/TeachingArticles/Citruskiller/Pages/default.aspx>

Griffin, J.J., Jacobi, W.R., Walla, J.A., McPherson, E.G., Sadof, C.S., McKenna, J.R., **Gleason, M.L.**, Ward Gauthier, N., Potter, D.A., Fulbright, D.W., Smitley, D., Adams, G.C., Brooks Gould, A., Cash, C.R., Starrett, M.C., Chastagner, G., Krischik, V.A., Newby, A. 2017. Ten-year performance of elms in the National Elm Trial. *Arboriculture and Urban Forestry* 43:107-120.

Dang, J.L., **Gleason, M.L.**, Niu, C.K., Liu, X., Guo, Y.Z., Zhang, R., and Sun, G.Y. 2017. Effects of fungicides and spray application interval on controlling Marssonina blotch of apple in the Loess Plateau Region of China. *Plant Disease* 101:568-575.

Alam, M.W., **Gleason, M.L.**, Amin, M., Ali, S., Rosli, H., Muhammad, S., and Rehman, A. 2016. First report of root and crown rot of strawberry caused by *Chaetomium globosum* in Punjab, Pakistan. *Plant Disease* 101:835.

Saira, M., Rehman, A., **Gleason, M.L.**, Alam, M.W., Abbas, M.F., Ali, S., and Idrees, M. 2016. First report of *Sclerotinia sclerotiorum* causing stem and crown rot of berseem (*Trifolium alexandrinum*) in Pakistan. *Plant Disease* 101:633.

Mehboob, S., Rehman, A., **Gleason, M.L.**, Alam, W., Idrees, M. 2016. First report of *Myrothecium verrucaria* causing leaf spot of maize in Pakistan. *Plant Disease* 101:633.

Alam, M.W., **Gleason, M.L.**, Aslam, S., Riaz, K., and Rehman, A. 2016. First report of *Botrytis cinerea* causing stem end rot of mango fruit in Pakistan. *Plant Disease* 101:255.

Xu, C., Chen, H., **Gleason, M.L.**, Xu, J., Liu, H., Zhang, R., and Sun, G. 2016. *Peltaster fructicola* genome reveals evolution from an invasive phytopathogen to an ectophytic parasite. *Scientific Reports* 6: doi:10.1038/srep22926.

Montone, V.O., Fraisse, C.W., Peres, N.A., Sentelhas, P.C., **Gleason, M.L.**, Ellis, M.A., and Schnabel, G. 2016. Evaluation of leaf wetness duration models for operational use in strawberry disease-warning systems in four U.S. states. *International Journal of Biometeorology*: doi:10.1007/s00484-016-1165-4.

Zhang, X., Harrington, T.C., Batzer, J.C., Kubota, R., Peres, N.A., and **Gleason, M.L.** 2016. Detection of *Colletotrichum acutatum* sensu lato on strawberry by loop-mediated isothermal amplification. *Plant Disease* 100:1804-1812.

Peng, H.X., Wei, X.Y., Xiao, Y.X., Sun, Y., Shang, S.P., Biggs, A.R., **Gleason, M.L.**, Zhu, Q., Guo, Y.Z., and Sun, G.Y. 2016. Management of apple Valsa canker with adjustments to potassium nutrition. *Plant Disease* 100:884-889.

Shapiro, L.R., Scully, E.D., Straub, T.J., Park, J., Stephenson, A.J., Beattie, G.A., **Gleason, M.L.**, Kolter, R., Coelho, M.C., De Moraes, C., Mescher, M.C., and Zhaxybayeva, O. 2016. Rapid evolution of the emerging plant pathogen *Erwinia tracheiphila* through horizontal gene transfer, mobile element proliferation, and genome decay. *Genome Biology and Evolution* 8:649-

664.

- Ismail, S.I., Batzer, J.C., Harrington, T.C., Crous, P.W., Lavrov, D.V., Li, H., Sun, G., and **Gleason, M.L.** 2016. Ancestral state reconstruction infers phytopathogenic origins of sooty blotch and flyspeck fungi on apple. *Mycologia* 108:292-302.
- Batzer, J.C., Weber, R.W.S., Singh, I., Mayfield, D.A., and **Gleason, M.L.** 2016. Diversity of the sooty blotch and flyspeck complex on apple in Germany. *Mycological Progress*: DOI 10.1007/s11557-015-1145-9.
- Tillman, J., Nair, A., **Gleason, M.**, and Batzer, J. 2015. Rowcovers and strip tillage provide an alternative to plasticulture systems in summer squash production. *Hortscience*: In press.
- Zhang, X., Peres, N.A., Nonnecke, G.R., and **Gleason, M.L.** 2015. Strawberry anthracnose: managing a hidden menace. *Plant Health Instructor*: 10.1094/PHI-T-2015-1015-01
- Sánchez, E.S., Hernández, E., **Gleason, M.L.**, Batzer, J.C., Williams, M.A., Coolong, T., and Bessin, R. 2015. Integrating row covers into organic muskmelon production. *HortTechnology* 25:762-768.
- Gao, L., Wei, Z., Wang, B., **Gleason, M.L.**, Zhang, R., and Sun, G.Y. 2015. A new species of *Scleroramularia* (Dothideoomycetes) associated with sooty blotch and flyspeck in southern China. *Phytotaxa* 226:261-268.
- Ismail, S.I., Batzer, J.C., Harrington, T.C., and **Gleason, M.L.** 2016. Phenology of infection of apple fruit by sooty blotch and flyspeck species in Iowa apple orchards. *Plant Disease* 100:352-359.
- Gao, L., Ma, Y., Zhao, W., Wei, Z., **Gleason, M.L.**, Chen, H., Hao, L., Zhang, R., and Sun, G. 2015. Three new species of *Cyphellophora* (Chaetothyriales) associated with sooty blotch and flyspeck. *PLoS ONE*: 09/2015; 10(9):e0136857. DOI:10.1371/journal.pone.0136857
- Tillman, J., Nair, A., **Gleason, M.L.**, and Batzer, J.C. 2015. Evaluating strip tillage and rowcover use in organic and conventional muskmelon production. *HortTechnology*: Accepted.
- Shapiro, L.R., Scully, E.D., Roberts, D., Straub, T.J., Gelb, S.M., Park, J., Stephenson, A.G., Liu, Q., Saalau Rojas, E., Beattie, G.A., **Gleason, M.L.**, De Moraes, C.M., Mescher, M.C., Fleischer, S.G., Kolter, R., Pierce, N., and Zhaxybayeva, O. 2015. Draft genome sequence of *Erwinia tracheiphila*, an economically important bacterial pathogen of cucurbits. *Genome Announcements*: doi:10.1128/genomeA.00482-15
- Rowlandson, T.L., **Gleason, M.L.**, Sentelhas, P.C., Gillespie, T.J., Thomas, C., and Hornbuckle, B.K. 2015. Rethinking leaf wetness duration determination for plant disease management. *Plant Disease* 99:310-319.
- Zhang, M., Gao, L., Zhang, R., Latinović, J., Latinović, N., Batzer, J.C., **Gleason, M.L.**, and Sun, G. 2015. New species and record of *Zygophiala* (Capnodiales, Mycosphaerellaceae) on apple from Montenegro. *Phytotaxa* 195:227-235.
- Saalau Rojas, E., Batzer, J.C., Beattie, G.A., Fleischer, S.J., Shapiro, L.R., Williams, M.A., Bessin, R., Bruton, B.D., Boucher, T.J., Jesse, L.C.H., and **Gleason, M.L.** 2015. Bacterial wilt of cucurbits: Resurrecting a classic pathosystem. *Plant Disease* 99:564-574.

- Batzer, J. C., Stensvand, A., Mayfield, D. A., and **Gleason, M. L.** 2015. Composition of the sooty blotch and flyspeck complex on apple in Norway is influenced by location and management practices. *European Journal of Plant Pathology* 141:361-374.
- Chen, C., Li, W., Gao, L., Zhang, R., Sun, G., and **Gleason, M.L.** 2014. First report of *Pseudoveronaea ellipsoidea* causing sooty blotch and flyspeck in China. *Mycotaxon* 129:247-253.
- Gao, L., Zhang, M., Zhao, W., Hao, L., Chen, H., Zhang, R., Batzer, J.C., **Gleason, M.L.**, and Sun, G. 2014. Molecular and morphological analysis reveals five new species of *Zygophiala* associated with flyspeck signs on plant hosts from China. *PLoS ONE* 9(10): e110717. Doi:10.1371/journal.pone.0110717.
- Puttha, R., Goggi, S.A., **Gleason, M.L.**, Jogloy, S., Kesmala, T., Vorasoot, N., Banterng, P., and Patanothai, A. 2014. Pre-chill with gibberellic acid overcomes seed dormancy in Jerusalem artichoke. *Agronomy for Sustainable Development* 34:869-878.
- Gao, L., Sun, G., and **Gleason, M.L.** 2014. Secondary spread of *Zygophiala wisconsinensis* on the surface of apple fruit. *European Journal of Plant Pathology*: DOI 10.1007/s10658-013-0370-9
- Chen, C., Gao, L., Qu, M., Wei, X., Li, W., Zhang, R., Sun, G., and **Gleason, M. L.** 2013. *Peltaster fructicola*, a newly recorded species from China associated with sooty blotch and flyspeck. *Mycotaxon* 123, <http://dx.doi.org/10.5248/123.265>
- Saalau Rojas, E., Jesse, L.H., and **Gleason, M.L.** 2014. Bees, beetles, and bacteria: the cucurbit bacterial wilt dilemma. *Plant Health Instructor*: 10.1094/PHI-T-2014-0312-01. <http://www.apsnet.org/edcenter/instcomm/TeachingArticles/BeesBeetlesandBacteria/Pages/default.aspx>
- Batzer, J.C., McManus, P.S., and **Gleason, M.L.** 2013. Fungicide spray volume and pruning impact performance of a warning system for sooty blotch and flyspeck on apple. *Plant Health Progress*: doi:10.1094/PHP-2013-0930-01-RS.
- Fu, D., Jiang, L., Wang, W., Qin, R., Zhang, R., Sun, G., and **Gleason, M.L.** 2013. *Colletotrichum fructicola*, first record causing bitter rot of apple in China. *Mycotaxon* 126:23-30.
- Hao, B., Li, W., Chen, C., Liu, G., Zhang, R., Wang, B., Sun, G., and **Gleason, M.L.** 2013. *Ramichloridium strelitziae*, a new record associated with sooty blotch and flyspeck on *Ravenala madagascariensis* in China. *Mycotaxon* 124: <http://dx.doi.org/10.5248/124.39>
- Xu, C., Wang, C., Sun, X., Zhang, R., **Gleason, M.L.**, and Sun, G. 2013. Multiple group I introns in the small-subunit rDNA of *Botryosphaeria dothidea*: implication for intraspecific genetic diversity. *PLoS ONE*: <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0067808>
- Saalau Rojas, E., Dixon, P.M., Batzer, J.C., and **Gleason, M.L.** 2013. Genetic and virulence variability among *Erwinia tracheiphila* strains recovered from different cucurbit hosts. *Phytopathology* 103:900-905.
- Li, W., Zhang, R., Suh, G., Batzer, J.C., and **Gleason, M.L.** 2013. A new species of *Devriesia* causing sooty blotch and flyspeck on Rubber Trees in China. *Mycological Progress* 12:733-738.

Latinović, J. Mazzaglia, A., Latinović, N., Ivanović, M., and **Gleason, M.L.** 2013. Resistance of olive cultivars to *Botryosphaeria dothidea*, causal agent of olive fruit rot in Montenegro. *Crop Protection* 48:35-40.

Mayfield, D.A., Karakaya, A., Batzer, J.C., Blaser, J.M., and **Gleason, M.L.** 2013. Diversity of sooty blotch and flyspeck fungi from apples in northeastern Turkey. *European Journal of Plant Pathology* 135:805-815.